

414 Rec'd PTO 21 DEC 2000

FORM PTO-1390 REV. 5-93		US DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEYS DOCKET NUMBER P00,1920
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371			U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 09/720556
INTERNATIONAL APPLICATION NO. PCT/EP99/04206	INTERNATIONAL FILING DATE 17 JUNE 1999	PRIORITY DATE CLAIMED 26 JUNE 1998	
TITLE OF INVENTION METHOD FOR THE TRANSMISSION OF INFORMATION IN THE SUBSCRIBER LINE AREA			
APPLICANT(S) FOR DO/EO/US		STEFAN SCHRÖDER	
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:			
<ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay. 4. <input checked="" type="checkbox"/> A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date. 5. <input checked="" type="checkbox"/> A copy of International Application as filed (35 U.S.C. 371(c)(2)). <ol style="list-style-type: none"> a. <input checked="" type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau). b. <input type="checkbox"/> has been transmitted by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US) 6. <input checked="" type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371(c)(2)). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. §371(c)(3)) <ol style="list-style-type: none"> a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau). b. <input type="checkbox"/> have been transmitted by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input checked="" type="checkbox"/> A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). 			
Items 11. to 16. below concern other document(s) or information included:			
<ol style="list-style-type: none"> 11. <input type="checkbox"/> An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98; (PTO 1449, Prior Art, Search Report). 12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 C.F.R. 3.28 and 3.31 is included. (SEE ATTACHED ENVELOPE) 13. <input checked="" type="checkbox"/> Amendment "A" Prior to Action with Appendix "A" attached. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment. 14. <input checked="" type="checkbox"/> A substitute specification and Mark-Up for Substitute Specification. 15. <input checked="" type="checkbox"/> A change of address letter attached to the Declaration. 16. <input checked="" type="checkbox"/> Other items or information: <ol style="list-style-type: none"> a. <input checked="" type="checkbox"/> Appointment of Associate Power of Attorney b. <input checked="" type="checkbox"/> EXPRESS MAIL #EL655302877US dated December 21, 2000. 			

U.S. APPLICATION NO. (if known, see 37 C.F.R. 1.5) 09/720556		INTERNATIONAL APPLICATION NO. PCT/EP99/04206		ATTORNEY'S DOCKET NUMBER P00,1920	
--	--	--	--	---	--

17. <input checked="" type="checkbox"/> The following fees are submitted: BASIC NATIONAL FEE (37 C.F.R. 1.492(a)(1)-(5): Search Report has been prepared by the EPO or JPO \$860.00 International preliminary examination fee paid to USPTO (37 C.F.R. 1.482) .. \$690.00 No international preliminary examination fee paid to USPTO (37 C.F.R. 1.482) but international search fee paid to USPTO (37 C.F.R. 1.445(a)(2)) \$710.00 Neither international preliminary examination fee (37 C.F.R. 1.482) nor international search fee (37 C.F.R. 1.445(a)(2)) paid to USPTO \$1000.00 International preliminary examination fee paid to USPTO (37 C.F.R. 1.482) and all claims satisfied provisions of PCT Article 33(2)-(4) \$ 100.00 <div style="text-align: right;">ENTER APPROPRIATE BASIC FEE AMOUNT =</div>	CALCULATIONS	PTO USE ONLY

Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 C.F.R. 1.492(e)).				\$	
--	--	--	--	----	--

Claims	Number Filed	Number Extra	Rate		
Total Claims	05 - 20 =	0	X \$ 18.00	\$	
Independent Claims	01 - 3 =	0	X \$ 80.00	\$	
Multiple Dependent Claims			\$270.00 +	\$	
TOTAL OF ABOVE CALCULATIONS =				\$ 860.00	
Reduction by ½ for filing by small entity, if applicable. Verified Small Entity statement must also be filed. (Note 37 C.F.R. 1.9, 1.27, 1.28)				\$	
SUBTOTAL =				\$ 860.00	
Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				+	
TOTAL NATIONAL FEE =				\$ 860.00	
Fee for recording the enclosed assignment (37 C.F.R. 1.21(h). The assignment must be accompanied by an appropriate cover sheet (37 C.F.R. 3.28, 3.31). \$40.00 per property				+	
TOTAL FEES ENCLOSED =				\$ 860.00	
				Amount to be refunded	\$
				charged	\$

a. ☒ A check in the amount of \$ 860.00 to cover the above fees is enclosed.


b. ☐ Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.

c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-1519. A duplicate copy of this sheet is enclosed.

NOTE: Where an appropriate time limit under 37 C.F.R. 1.494 or 1.495 has not been met, a petition to revive (37 C.F.R. 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

SCHIFF HARDIN & WAITE
PATENT DEPARTMENT
6600 Sears Tower
233 South Wacker Drive
Chicago, Illinois 60606-6473


 SIGNATURE

 Mark Bergner
 NAME

 45,877
 Registration Number

41- Rec'd PCT/PTO 21 DEC 2000

09/720556

CERTIFICATE OF MAILING BY EXPRESS MAIL

Express Mail Mailing Label Number EL655302877US

Date of Deposit: DECEMBER 21, 2000

I hereby certify that this correspondence is being deposited with the United States Postal "Express Mail Post Office to Addressee" service under 37 CFR 1.10(c) on the date indicated above and is addressed to:

**BOX PCT
Assistant Commissioner for Patents
Washington DC 20231**

**Case Number: P00,1920
Applicant(s): STEFAN SCHRÖDER**

**International Application No. PCT/EP99/04206
International Filing Date 17 JUNE 1999
Priority Date Claimed 26 JUNE 1998**

**Title: METHOD FOR THE TRANSMISSION OF INFORMATION IN THE
SUBSCRIBER LINE AREA**

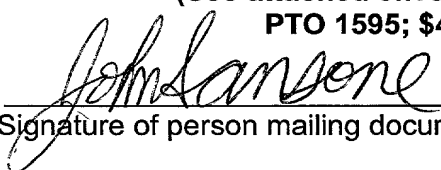
Enclosed are the following documents:

International application as filed;
English Translation;
Annexes;
Executed Declaration;
Change of Address form for Applicants' Representative;
PTO 1390 in duplicate;
Amendment "A" prior to action with Appendix "A" attached;
Appointment of Associate Power of Attorney;
Substitute Specification and Mark-Up Substitute Specification;

NO DRAWINGS FOR THIS CASE

Fee: \$860.00;
Postcard.

**(See attached envelope for Executed Assignment;
PTO 1595; \$40.00 filing fee; Postcard)**



Signature of person mailing documents and fees

-1-

BOX PCT
IN THE UNITED STATES DESIGNATED/ELECTED OFFICE
OF THE UNITED STATES PATENT AND TRADEMARK OFFICE
UNDER THE PATENT COOPERATION TREATY--CHAPTER II

5

APPLICANT(S): STEFAN SCHRÖDER
ATTORNEY DOCKET NO.: P00,1920
INTERNATIONAL APPLICATION NO: PCT/EP99/04206
INTERNATIONAL FILING DATE: 17 JUNE 1999
INVENTION: METHOD FOR THE TRANSMISSION OF
INFORMATION IN THE SUBSCRIBER LINE AREA

Assistant Commissioner for Patents,
Washington D.C. 20231

10

AMENDMENT A PRIOR TO ACTION

Sir:

Applicants herewith amend the above-referenced PCT application, and
request entry of the Amendment prior to examination on the United States
Examination Phase.

15

IN THE CLAIMS:

On substitute page 4:

replace line 1 with --WHAT IS CLAIMED IS:--;

Please replace original claims 1-5 with the following rewritten claims 1-5,
20 referring to the mark-ups in Appendix A.

1. (Amended) A method transmitting information in a subscriber line
area with a subscriber line network, comprising the steps of:

transmitting information via said subscriber line network according to an xDSL
25 method; and

supplying control data to an interface provided between an application level
and a physical transmission with which an xDSL link can be dynamically
reconfigured by an evaluation of protocols.

30

2. (Amended) The method according to claim 1, further comprising the step of arranging said interface in a local exchange.

3. (Amended) The method according to claim 1, further comprising the step
5 of taking said control data from signaling.

4. (Amended) The method according to claim 1, further comprising the step of taking said control data from RM cells of ABR traffic.

10 5. (Amended) The method according to claim 1, further comprising the step of taking said control data from the Internet protocol.

REMARKS

15 The present Amendment revises the specification and claims to conform to United States patent practice, before examination of the present PCT application in the United States National Examination Phase. All of the changes are editorial and applicant believes no new matter is added thereby. The amendment of the claims is not intended to be a surrender of any of the subject matter of those claims.

Early examination on the merits is respectfully requested.

20 Submitted by,

 (Reg. No. 45,877)

25 Mark Bergner
Schiff Hardin & Waite
Patent Department
6600 Sears Tower
233 South Wacker Drive
Chicago, Illinois 60606-6473
30 (312) 258-5779
Attorneys for Applicant

APPENDIX A
CLAIM MARK UPS

This redlined draft, generated by CompareRite (TM) - The Instant Redliner, shows the differences between -
original document : Q:\DOCUMENTS\YEAR 2000\P001920-SCHROEDER-TRANSMITTING INFORMATION\PRE COMPARE CLAIMS.DOC
and revised document: Q:\DOCUMENTS\YEAR 2000\P001920-SCHROEDER-TRANSMITTING INFORMATION\AMENDED CLAIMS.DOC

CompareRite found 18 change(s) in the text

Deletions appear as Overstrike text surrounded by []
Additions appear as Bold text

1. ~~[Method for the transmission of]~~**(Amended) A method transmitting** information in ~~[the]~~ a subscriber line area~~[-, comprising]~~ **with** a subscriber line network ~~[via which information are transmitted], comprising the steps of:~~
transmitting information via said subscriber line network according to an xDSL method~~[-, characterized in that]; and~~
supplying control data to an interface ~~[is]~~ provided between ~~[the]~~ an application level and ~~[the]~~ a physical transmission~~[-, control data]~~ with which an xDSL link can be dynamically reconfigured ~~[being supplied thereto by]~~**by an** evaluation of protocols.

2. ~~[Method]~~**(Amended) The method** according to claim 1, ~~[characterized in that the interface is arranged in the]~~ **further comprising the step of arranging said interface in a local exchange.**

3. ~~[Method]~~**(Amended) The method** according to claim 1, ~~[2, characterized in that the control data are taken from the signalling.]~~ **further comprising the step of taking said control data from signaling.**

~~[4. Method according to claims 1, 2, characterized in that the control data are taken from the RM cells of the ABR traffic.]~~ 4. **(Amended) The method** according to claim 1, **further comprising the step of taking said control data from RM cells of ABR traffic.**

~~[5. Method]~~ **5. (Amended) The method** according to claim 1, ~~[2,~~
~~characterized in that the]~~**further comprising the step of taking said control data**
~~[are taken]~~ from the Internet protocol.

SPECIFICATION

TITLE

METHOD FOR THE TRANSMISSION OF INFORMATION IN THE SUBSCRIBER
LINE AREA

5

BACKGROUND OF THE INVENTION

Field of the Invention

The invention is directed to a method for transmitting information in a subscriber line area with a subscriber line network.

10

Description of the Related Art

The transmission of information between a subscriber and the local exchange respectively allocated to the subscriber generally ensues via a subscriber line network that usually comprises a plurality of subscriber lines. In the prior art, these are composed of traditional copper leads (a/b leads), and the individual subscriber lines are bundled and brought to the appertaining local exchange.

15

Only voice information had been transmitted via the subscriber line network in the past; however the transmission of data and information of a different nature has been gaining in significance in recent years. The transmission of voice information can be implemented with a relatively small bandwidth--far more bandwidth is required for the transmission of data. And historically, the transmission of data required installation of separate networks.

20

Future communications systems could advantageously make use of the subscriber line networks that already exist for the transmission of data and information of higher bit-rate services. However, separate transmission methods must be developed to implement this. Such transmission methods include, for example, the xDSL (ADSL, HDSL, etc.) methods. The copper leads of the subscriber line network can thus be utilized up to transmission rates in the Mbit/s range on the basis of suitable transmission-oriented measures.

25

The ADSL transmission method is asymmetrically designed. This means that a higher bit rate can be selected in a privileged direction at the expense of a

30

lower bit rate in the opposite direction. For example, up to 6 Mbit/s can be sent to the subscriber proceeding from the network and 2 Mbit/s can be sent from the subscriber to the network. The disadvantage of such a procedure is that the privileged direction cannot be dynamically changed once it has been selected.

5

SUMMARY OF THE INVENTION

The invention is based on the object of providing flexible control for a bidirectional transmission between network and subscriber.

It is particularly advantageous in the invention that an interface is provided
10 between the application level and the physical transmission to which control data are supplied by an evaluation of protocols. This involves the advantage that the privileged direction set by employing an xDSL method such as ADSL can be reconfigured by higher level protocols.

In the invention, a method for transmitting information in a subscriber line
15 area with a subscriber line network is provided, comprising the steps of transmitting information via said subscriber line network according to an xDSL method; and supplying control data to an interface provided between an application level and a physical transmission with which an xDSL link can be dynamically reconfigured by an evaluation of protocols.

20 Advantageous embodiments include arranging said interface in a local exchange. The control data may be taken from signaling, from RM cells of ABR traffic, or from the Internet protocol.

25

DESCRIPTION OF THE PREFERRED EMBODIMENTS

The invention is explained in greater detail below on the basis of an exemplary embodiment.

An interface is provided between the application level and the physical
transmission, which is preferably arranged in the local exchange. Control data are
30 offered via this interface with which the privileged direction of the transmission

method ADSL can be reconfigured—this reconfiguration is triggered by higher level protocols.

Higher level protocols are considered to be, for example, the signaling, and/or the evaluation of resource management cells in ATM networks or IP “flow detection” mechanisms. When the evaluation of a higher protocol level yields the need for a change of the required bit rate in a specific direction, then the xDSL link is correspondingly reconfigured. The physical elements, i.e., the copper leads, are thus always optimally adapted and utilized according to need. Depending on the type of applied use, thus, the network-to-subscriber direction or the subscriber-to-network direction will have the higher bit rate on a case-by-case basis. Symmetrically divided bit rates are also possible with this implementation.

In the case of the signaling, ATM-based networks provide for requesting a specific transmission rate from the network with the signaling. These signaling protocols allow the use of asymmetrical connections. When, for example, the case of a file download from a server is considered, then a higher transmission capacity is required from the network toward the subscriber. When, in contrast, for example, a video telephony is requested, then, in particular, the same (possibly high) transmission capacity will be needed for both directions. In this example, the evaluation of the signaling protocols automatically adapts the physical transmission rate.

In the case of transmission of information with ABR traffic, the invention interprets the RM cells in, for example, the local exchange. Information about the traffic load of the network (congestion indication signals) are contained in the RM cells. A setting of the bandwidth via the interface between the application level and the physical transmission is undertaken with this information.

In the case of the transmission of information via the Internet, reconfigurations can be undertaken via IP “flow detection” mechanisms. It is likewise possible to set the bandwidth dependent on the employed protocol of the application layer.

The method disclosed here can be combined with known adaption methods (i.e., an automatic identification of the maximally possible transmission rate

via existing leads). Furthermore, the basic idea presented here can also be expanded to other areas, for example, to transmission methods that are not line-bound.

The above-described method is illustrative of the principles of the present invention. Numerous modifications and adaptations thereof will be readily apparent to those skilled in this art without departing from the spirit and scope of the present invention.

ABSTRACT

Currently known transmission methods in the subscriber line area such as xDSL do not allow a reconfiguration of the xDSL link once it has been undertaken.

In order to achieve greater flexibility in this regard, the invention provides that the

5 appertaining xDSL link be dynamically reconfigured by higher level protocols.

METHOD FOR THE TRANSMISSION OF INFORMATION IN THE SUBSCRIBER LINE AREA

The invention is directed to a method according to the preamble of patent claim 1.

5 The transmission of information between subscriber and the local exchange respectively allocated to the subscriber usually ensues via a subscriber line network that usually comprises a plurality of subscriber lines. In the Prior Art, these are composed of traditional copper leads (a/b leads). The individual subscriber lines are thereby bundled and brought to the
10 appertaining local exchange.

 Only voice information were transmitted via the subscriber line network in the past, whereby the transmission of data and information of different natures has been gaining in significance in recent years. Whereas the transmission of voice information can be implemented with a relatively
15 small bandwidth, far more bandwidth is required for the transmission of data. However, separate networks had to be installed therefor.

 The desire for future transmission purposes is therefore to also use the subscriber line networks that already exist for the transmission of data and information of higher bit-rate services. However, separate transmission
20 methods must be developed therefor. Such transmission methods are, for example, what are referred to as the xDSL (ADSL, HDSL, etc.) methods. The copper leads of the subscriber line network can thus be utilized up to transmission rates in the Mbit/s range on the basis of suitable transmission-oriented measures.

25 The ADSL transmission method is asymmetrically designed. This means that a higher bit rate can be selected in a privileged direction at the expense of a lower bit rate in the opposite direction. For example, up to 6 Mbit/s can be sent to the subscriber proceeding from the network and 2 Mbit/s

can be sent from the subscriber to the network. The disadvantage of such a procedure is to be seen therein that the privileged direction cannot be dynamically changed once it has been selected.

5 The invention is based on the object of disclosing a way of how a bidirectional transmission between network and subscriber can be flexibly controlled.

10 It is particularly advantageous in the invention that an interface is provided between the application level and the physical transmission to which control data are supplied by evaluation of protocols. This involves the advantage that the privileged direction set by employing an xDSL method such as, for example, ADSL can be reconfigured by higher protocols.

Advantageous developments of the invention are recited in the subclaims.

15 The invention is explained in greater detail below on the basis of an exemplary embodiment.

20 It is provided in accord therewith to provide an interface between the application level and the physical transmission. The interface should preferably be arranged in the local exchange. Control data are offered via this interface with which the privileged direction of the transmission method ADSL can be reconfigured. The reconfiguration is thereby triggered by higher protocols.

25 Coming into consideration as higher protocols are, for example, the signalling, the evaluation of resource management cells in ATM networks or 'P' flow detection' mechanisms. When the evaluation of a higher protocol level yields the need for a change of the required bit rate in a specific direction, then the xDSL link is correspondingly reconfigured. The physics, i.e. the copper leads are thus always optimally adapted and utilized according to the need. Dependent on the type of applied use, thus, the network-to-subscriber direction or the subscriber-to-network direction will

have the higher bit rate on a case-by-case basis. Symmetrically divided bit rates are thereby also possible.

In the case of the signalling, it is provided in ATM-based networks to request a specific transmission rate from the network with the signalling.

- 5 These signalling protocols allow the use of asymmetrical connections. When, for example, the case of a file download from a server is considered, then a higher transmission capacity is required from the network toward the subscriber. When, in contrast, for example, a video telephony is requested, then, in particular, the same, possibly high transmission capacity will be
10 needed for both directions. In this example, the evaluation of the signalling protocols automatically adapts the physical transmission rate.

- In the case of transmission of information with ABR traffic, it is provided to interpret the RM cells in, for example, the local exchange. Information about the traffic load of the network (congestion indication
15 signals) are contained in the RM cells. A setting of the bandwidth via the interface between the application level and the physical transmission is undertaken with this information.

- In the case of the transmission of information via the Internet, reconfigurations can be undertaken via IP' flow detection' mechanisms. It is
20 likewise possible to set the bandwidth dependent on the employed protocol of the application layer.

- The method disclosed here can be combined with known adaption methods (i.e., automatic identification of the maximally possible transmission rate via existing leads). Further, the basic idea presented here can also be
25 expanded to other areas, for example to transmission methods that are not line-bound.

Patent Claims

1. Method for the transmission of information in the subscriber line area, comprising a subscriber line network via which information are transmitted according to an xDSL method, characterized in that an interface is provided between the application level and the physical transmission, control data with which an xDSL link can be dynamically reconfigured being supplied thereto by evaluation of protocols.

2. Method according to claim 1, characterized in that the interface is arranged in the local exchange.

3. Method according to claim 1, 2, characterized in that the control data are taken from the signaling.

4. Method according to claims 1, 2, characterized in that the control data are taken from the RM cells of the ABR traffic.

5. Method according to claim 1, 2, characterized in that the control data are taken from the Internet protocol.

Abstract**METHOD FOR THE TRANSMISSION OF INFORMATION IN THE
SUBSCRIBER LINE AREA**

Currently known transmission methods in the subscriber line area
5 such as, for example, xDSL do not allow a reconfiguration of the xDSL link
once it has been undertaken. In order to achieve greater flexibility here, it is
provided that the appertaining xDSL link be dynamically reconfigured by
higher protocols.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

CHANGE OF ADDRESS OF APPLICANTS' REPRESENTATIVE

APPLICANT(S): STEFAN SCHRÖDER
ATTORNEY DOCKET NO.: P00,1920
INTERNATIONAL APPLICATION NO: PCT/EP99/04206
INTERNATIONAL FILING DATE: 17 JUNE 1999
INVENTION: METHOD FOR THE TRANSMISSION OF
INFORMATION IN THE SUBSCRIBER LINE
AREA

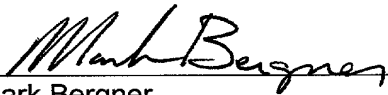
Assistant Commissioner for Patents,
Washington, D.C. 20231

S I R:

Members of the firm of Hill & Simpson designated on the original Power of Attorney have merged into the firm of Schiff Hardin & Waite. All future correspondence for the above-referenced application therefore should be sent to the following address:

SCHIFF HARDIN & WAITE
Patent Department
6600 Sears Tower
233 South Wacker Drive
Chicago, Illinois 60606-6473

Submitted by,

 (Reg. No. 45,877)
Mark Bergner
SCHIFF HARDIN & WAITE
Patent Department
6600 Sears Tower
Chicago, Illinois 60606-6473
Telephone: (312) 258-5779
Attorneys for Applicants

DATE: DECEMBER 21, 2000

BOX PCT
IN THE UNITED STATES DESIGNATED/ELECTED OFFICE
OF THE UNITED STATES PATENT AND TRADEMARK OFFICE
UNDER THE PATENT COOPERATION TREATY--CHAPTER II

APPLICANT(S): STEFAN SCHRÖDER
ATTORNEY DOCKET NO.: P00,1920
INTERNATIONAL APPLICATION NO: PCT/EP99/04206
INTERNATIONAL FILING DATE: 17 JUNE 1999
INVENTION: METHOD FOR THE TRANSMISSION OF INFORMATION
IN THE SUBSCRIBER LINE AREA


Assistant Commissioner for Patents,
Washington, D.C. 20231

APPOINTMENT OF ASSOCIATE POWER OF ATTORNEY

Dear Sir:

I am an attorney designated on the Power of Attorney for the
above-referenced application. I hereby appoint Mark Bergner
(Reg. No. 45,877) as an associate attorney, with full power of substitution
and revocation, to prosecute this application and to transact all business
in the Patent and Trademark Office connected therewith.

Submitted by,

 (Reg. No. 31,870)
Melvin A. Robinson
SCHIFF HARDIN & WAITE
PATENT DEPARTMENT
6600 Sears Tower
Chicago, Illinois 60606-6473
(312) 258-5785
Attorney for Applicant(s)

Declaration and Power of Attorney For Patent Application

Erklärung Für Patentanmeldungen Mit Vollmacht

German Language Declaration

Als nachstehend benannter Erfinder erkläre ich hiermit an Eides Statt:

dass mein Wohnsitz, meine Postanschrift, und meine Staatsangehörigkeit den im Nachstehenden nach meinem Namen aufgeführten Angaben entsprechen,

dass ich, nach bestem Wissen der ursprüngliche, erste und alleinige Erfinder (falls nachstehend nur ein Name angegeben ist) oder ein ursprünglicher, erster und Miterfinder (falls nachstehend mehrere Namen aufgeführt sind) des Gegenstandes bin, für den dieser Antrag gestellt wird und für den ein Patent beantragt wird für die Erfindung mit dem Titel:

Verfahren zur Übertragung von Informationen im Teilnehmeranschlußbereich

deren Beschreibung

(zutreffendes ankreuzen)

☒ hier beigelegt ist.

☐ am _____ als

PCT internationale Anmeldung

PCT Anwendungsnummer _____

eingereicht wurde und am _____

abgeändert wurde (falls tatsächlich abgeändert)

Ich bestätige hiermit, dass ich den Inhalt der obigen Patentanmeldung einschliesslich der Ansprüche durchgesehen und verstanden habe, die eventuell durch einen Zusatzantrag wie oben erwähnt abgeändert wurde.

Ich erkenne meine Pflicht zur Offenbarung irgendwelcher Informationen, die für die Prüfung der vorliegenden Anmeldung in Einklang mit Absatz 37, Bundesgesetzbuch, Paragraph 1.56(a) von Wichtigkeit sind, an.

Ich beanspruche hiermit ausländische Prioritätsvorteile gemäss Abschnitt 35 der Zivilprozessordnung der Vereinigten Staaten, Paragraph 119 aller unten angegebenen Auslandsanmeldungen für ein Patent oder eine Erfindersurkunde, und habe auch alle Auslandsanmeldungen für ein Patent oder eine Erfindersurkunde nachstehend gekennzeichnet, die ein Anmeldedatum haben, das vor dem Anmeldedatum der Anmeldung liegt, für die Priorität beansprucht wird.

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

the specification of which

(check one)

☐ is attached hereto.

☐ was filed on _____ as

PCT international application

PCT Application No. _____

and was amended on _____ (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

German Language Declaration

Prior foreign applications
Priorität beansprucht

Priority Claimed

98111918.3 Germany (EP) 26.. Juni 1998
(Number) (Country) (Day Month Year Filed)
(Nummer) (Land) (Tag Monat Jahr eingereicht)

☒ ☐
Yes No
Ja Nein

(Number) (Country) (Day Month Year Filed)
(Nummer) (Land) (Tag Monat Jahr eingereicht)

☐ ☐
Yes No
Ja Nein

(Number) (Country) (Day Month Year Filed)
(Nummer) (Land) (Tag Monat Jahr eingereicht)

☐ ☐
Yes No
Ja Nein

Ich beanspruche hiermit gemäss Absatz 35 der Zivilprozessordnung der Vereinigten Staaten, Paragraph 120, den Vorzug aller unten aufgeführten Anmeldungen und falls der Gegenstand aus jedem Anspruch dieser Anmeldung nicht in einer früheren amerikanischen Patentanmeldung laut dem ersten Paragraphen des Absatzes 35 der Zivilprozessordnung der Vereinigten Staaten, Paragraph 122 offenbart ist, erkenne ich gemäss Absatz 37, Bundesgesetzbuch, Paragraph 1.56(a) meine Pflicht zur Offenbarung von Informationen an, die zwischen dem Anmeldedatum der früheren Anmeldung und dem nationalen oder PCT internationalen Anmeldedatum dieser Anmeldung bekannt geworden sind.

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §122, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

(Application Serial No.)
(Anmeldeseriennummer)

(Filing Date)
(Anmeldedatum)

(Status)
(patentiert, anhängig,
aufgegeben)

(Status)
(patented, pending,
abandoned)

(Application Serial No.)
(Anmeldeseriennummer)

(Filing Date)
(Anmeldedatum)

(Status)
(patentiert, anhängig,
aufgeben)

(Status)
(patented, pending,
abandoned)

Ich erkläre hiermit, dass alle von mir in der vorliegenden Erklärung gemachten Angaben nach meinem besten Wissen und Gewissen der vollen Wahrheit entsprechen, und dass ich diese eidesstattliche Erklärung in Kenntnis dessen abgebe, dass wissentlich und vorsätzlich falsche Angaben gemäss Paragraph 1001, Absatz 18 der Zivilprozessordnung der Vereinigten Staaten von Amerika mit Geldstrafe belegt und/oder Gefängnis bestraft werden koennen, und dass derartig wissentlich und vorsätzlich falsche Angaben die Gültigkeit der vorliegenden Patentanmeldung oder eines darauf erteilten Patentes gefährden können.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

German Language Declaration

VERTRETUNGSVOLLMACHT: Als benannter Erfinder beauftrage ich hiermit den nachstehend benannten Patentanwalt (oder die nachstehend benannten Patentanwälte) und/oder Patent-Agenten mit der Verfolgung der vorliegenden Patentanmeldung sowie mit der Abwicklung aller damit verbundenen Geschäfte vor dem Patent- und Warenzeichenamt: *(Name und Registrationsnummer anführen)*

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. *(list name and registration number)*

And I hereby appoint

Messrs. John D. Simpson (Registration No. 19,842) Lewis T. Steadman (17,074), William C. Stueber (16,453), P. Phillips Connor (19,259), Dennis A. Gross (24,410), Marvin Moody (16,549), Steven H. Noll (28,982), Brett A. Valiquet (27,841), Thomas I. Ross (29,275), Kevin W. Guynn (29,927), Edward A. Lehmann (22,312), James D. Hobart (24,149), Robert M. Barrett (30,142), James Van Santen (16,584), J. Arthur Gross (13,615), Richard J. Schwarz (13,472) and Melvin A. Robinson (31,870), David R. Metzger (32,919), John R. Garrett (27,888) all members of the firm of Hill, Steadman & Simpson, A Professional Corporation.

Telefongespräche bitte richten an:
(Name und Telefonnummer)

Direct Telephone Calls to: *(name and telephone number)*

312/876-0200
Ext. _____

Postanschrift:

Send Correspondence to:

HILL, STEADMAN & SIMPSON
A Professional Corporation
85th Floor Sears Tower, Chicago, Illinois 60606

Voller Name des einzigen oder ursprünglichen Erfinders:		Full name of sole or first inventor:	
SCHRÖDER, Stefan			
Unterschrift des Erfinders	Datum	Inventor's signature	Date
<i>Stefan Schröder</i>	16. Juni 98		
Wohnsitz		Residence	
D-80802 München, Germany		DEX	
Staatsangehörigkeit		Citizenship	
Bundesrepublik Deutschland			
Postanschrift		Post Office Address	
Occamstr. 8			
D-80802 München			
Bundesrepublik Deutschland			
Voller Name des zweiten Miterfinders (falls zutreffend):		Full name of second joint inventor, if any:	
Unterschrift des Erfinders	Datum	Second Inventor's signature	Date
Wohnsitz		Residence	
Staatsangehörigkeit		Citizenship	
Postanschrift		Post Office Address	

(Bitte entsprechende Informationen und Unterschriften im Falle von dritten und weiteren Miterfindern angeben).

(Supply similar information and signature for third and subsequent joint inventors).